Lifestyle Indices - Mosquito Activity - v2.0

Domain Portfolio: Forecast | Domain: Lifestyle - Indices | Usage Classification: Standard

Geography: Global **Attribution Required:** No **Attribution Requirements:** N/A

Overview

The Forecast Indices API is sourced from the TWC Forecast system. The Mosquito index indicates the weather's influence on the activity of mosquitoes based on weather conditions.

In the context of this product, seasonality is controlled by making use of both a critical day length factor found to relate to mosquito activity as well as a climatological average minimum temperature threshold.

The weather factors involved include relative humidity, temperature and wind speed. Low wind speeds, high relative humidity and warm, but-not-hot temperatures form weighted contributions.
The index is calculated hour-by-hour, then "rolled up" to create both an "evening mosquito index" (1 per day) and a 2-per-day "daypart" mosquito index (for "daytime" and "nighttime").

HTTP Headers and Data Lifetime - Caching and Expiration

For details on appropriate header values as well as caching and expiration definitions, please see **The Weather Company Data | API Common Usage Guide**.

Atomic Endpoints	Aggregate Product Name (requires v3 Aggregate Common Parameter API)
/v2/indices/mosquito/daily/3day	v2idxMosquitoDaily3
/v2/indices/mosquito/daily/5day	v2idxMosquitoDaily5
/v2/indices/mosquito/daily/7day	v2idxMosquitoDaily7
/v2/indices/mosquito/daily/10day	v2idxMosquitoDaily10
/v2/indices/mosquito/daily/15day	v2idxMosquitoDaily15

URL Construction

Request by Geocode (Latitude & Longitude): Required Parameters: geocode, language, format
https://api.weather.com/v2/indices/mosquito/daily/3day?**geocode=33.74,-84.39**&language=en-US&format=json&**apiKey=yourApiKey**
Request by Postal Code and Country Code: Required Parameters: postalCode, countryCode, language, format
https://api.weather.com/v2/indices/mosquito/daily/3day?**postalCode=94608&countryCode=US**&format=json&language=en-US&**apiKey=yourApiKey**

Data Elements & Definitions

Note: Field names are sorted alphabetically in the table below for presentation purposes. The table below does not represent the sort order of the API response.

Field Name	Description	Type	Range	Sample	Nulls Allowed	Translated	Display
metadata		**object**					
expireTimeGmt	The time to to expire and remove a record from your system	epoch		1548948626	N	N	do not display
language	Response language	string		en-US	N	N	do not display
latitude	Latitude - Rounded to 2 digit decimal by default	decimal	190 to 90	33.65	N	N	do not display
longitude	Longitude - Rounded to 2 digit decimal by default	decimal	-180 to 180	-84.43	N	N	do not display
statusCode	Success or error code. (See Weather Company Data | API I Common Usage Guide for complete list of response status codes)	integer		200	N	N	do not display
transactionId	Transaction ID for internal use	string		1548948051920:755877192	N	N	do not display
version	API version	integer		2	N	N	do not display
mosquitoIndex24hour		**object**					
fcstValid	Time forecast is valid ... start of the forecast period, always 7am local time.	[epoch]		1369306800	N	N	do not display
fcstValidLocal	Time forecast is valid ... start of the forecast period, always 7am local time.	[ISO]		2013-05-23T07:00:00-0400	N	N	display As Provided
dow	Forecast valid day of week	[string]		Wednesday	N	Y	display As Provided
num	Daily Segment (24hour) - Forecast valid day number. Day 0 = 1st valid day Daypart Segment (12hour) - Sequential daypart number, where 1 = day time of Day 0	[integer]		21	N	N	display As Provided
eveningMosquitoCategory	Descriptive text of Mosquito Index for the evening period between 6pm-10pm local time.	[string]		Very High Activity	N	Y	display As Provided
eveningMosquitoIndex	Index indicating activity of mosquitoes during the 6p-10 pm local time evening hours based on weather conditions. 0=None, 1=Limited Activity, 2=Moderate Activity, 3=High Activity, 4=Very High Activity	[integer]	1-4	4	N	N	display As Provided
mosquitoIndex12hour		**object**					
dayInd	Day / Night Indicator	[string]	D, N	D	N	N	display As Provided
daypartName	Name of 12hr daypart, not including day names in first 48hrs	[string]		Tomorrow	N	Y	display As Provided
fcstValidLocal	Time forecast is valid ... start of the forecast period, always 7am local time.	[ISO]		2013-05-23T07:00:00-0400	N	N	display As Provided
num	Daily Segment (24hour) - Forecast valid day number. Day 0 = 1st valid day Daypart Segment (12hour) - Sequential daypart number, where 1 = day time of Day 0	[integer]		21	N	N	display As Provided
mosquitoCategory	Descriptive text of Mosquito Index for 2 dayparts, 7am - 7pm, 7pm - 7am.	[string]		Very High Activity	N	Y	display As Provided

mosquitoIndex	Index indicating activity of mosquitoes based on weather conditions. 0=None, 1=Limited Activity, 2=Moderate Activity, 3=High Activity, 4=Very High Activity	[integer]	1-4	4	N	N	display As Provided

JSON Sample


```
// Response Collapsed for Presentation Purposes
{
        metadata: {
                language: "en-US",
                transactionId: "1548948051920:755877192",
                version: "1",
                latitude: 37.84,
                longitude: -122.28,
                expireTimeGmt: 1548948626,
                statusCode: 200
        },
        mosquitoIndex24hour: {
                fcstValid: [
                        1548946800,
                        1549033200
                ],
                fcstValidLocal: [
                        "2019-01-31T07:00:00-0800",
                        "2019-02-01T07:00:00-0800"
                ],
                dow: [
                        "Thursday",
                        "Friday"
                num: [
                        1,
                        2
                ],
                eveningMosquitoIndex: [
                        1,
                        1
                ],
                eveningMosquitoCategory: [
                        "Limited Activity",
                        "Limited Activity"
                ]
        },
        mosquitoIndex12hour: {
                fcstValid: [
                        1548946800,
                        1548990000
                ],
                fcstValidLocal: [
                        "2019-01-31T07:00:00-0800",
                        "2019-01-31T19:00:00-0800"
                ],
                dayInd: [
                        "D",
                        "N"
                num: [
```

```
                                        1,
                                        2
                                ],
                                daypartName: [
                                        "Today",
                                        "Tonight"
                                ],
                                mosquitoIndex: [
                                        1,
                                        1
                                ],
                                mosquitoCategory: [
                                        "Limited Activity",
                                        "Limited Activity"
                                ]
                        }
}
```